Page 1

Item ID:

September 1, 2009 8:45:28 AM

Accept

D

**Revision ID:** 

Required Date: 9/08/09

Item Name:

205 Skidtube bent detail

Start Date:

9/01/09

QC:

D2580-1

Start Qty: 2.00

**Req'd Qty: 2.00** 



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Date:

**Tooling:** SPC (Y/N): Date:

Date:

Start Run

Setup Start

Stop

Stop

Sequence ID/ **Work Center ID** 

Operation **Description** 

Set Up/ **Run Hours** 

Draw Number Draw Rev.

Plan Accept Code Qty

Reject Qty

Reject Number

Insp. Stamp

Draw Nbr

**Revision Nbr** 

D2580

Rev D

HandFinish

Memo

0.00

0.00

Hand Finishing

1- Inspect mat'l D2500-1-190 for damage.

2- Chemical Conversion Coat as per QSI 005 4.1

101

100

QC3- Inspect Part Finish

0.00

QC

Quality Control

0.00

<b>Dart</b>	<b>Aeros</b>	pace	Ltd
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W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	ROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
			- Name of the state of the stat										
Part No	:	PAR #:	Fault Categ	jory: N	CR: Yes	No DQ	<b>A</b> :	Date:					
			Disposition: QA										
NCR:		\	WORK ORDE	R NON-CONFORMANC	E (NCR	)							
DATE	STEP	Description of NC	<del></del>	Corrective Action Section B		Verification		Approval	Approval				
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti		Chief Eng	QC Inspector				
	-				_								

D

September 1, 2009 8:45:28 AM

Page 2

Item ID:

D2580-1

Accept

Setup Start



**Revision ID:** 

Item Name: 205 Skidtube bent detail Stop

**Start Date:** 

Required Date: 9/08/09

9/01/09

Start Qty: 2.00 Req'd Qty: 2.00

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Process Plan:

Date:

**Tooling:** 

Date:

Start



QC:

Date:

SPC (Y/N):

Date:

Run

Stop

Sequence ID/ **Work Center ID** 

Operation **Description** 

Set Up/ **Run Hours**  Draw Number

Plan Draw Rev. Code

Accept Qty

Reject Oty

Reject Number Stamp

9 - ANM 9-9-1

Insp.

110

Skidtubes Skidtubes

Memo

0.00

0.00

1-Drill pilot holes using drill jig DT 8149 (Do not use cutting fluid)

2-Open holes to 0.500" as per Dwg D2580 without cutting fluid

3-Deburr and blow out all chips from inside of tube

4-Bond web in place per QSI 015.

A/R Sikaflex-291 batch: 7/12 39/
Sikaflex expire date: 79/12 1000

Start time: 1:30 bond for 12hrs

130

QC5- Inspect part completeness to step on W/O

0.00

Quality Control

W/O:		WORK ORDER CHANGES												
DATE	STEP	PRO	OCEDURE CHAI	IGE	Ву	,	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
									1					
Part No	:	PAR #:	Fault Cateç	jory:	NCR: Y	es N	o <b>DQA:</b>	Date: _						
Resol		esolution:	Disposition	):	_ QA: N/0	Clos	sed:	Date: _						
NCR:			WORK ORDER NON-CONFORMANCE (NCR)											
DATE	STEP	EP Description of NC Section A		on B		Verification	Approval	Approval						
DATE			Initial Chief Eng	Action Description Chief Eng	1 3	gn & ate	Section C	Chief Eng	QC Inspector					
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#### Work Order ID 51743

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September 1, 2009 8:45:28 AM



Page 3

Item ID:

D2580-1

Accept

Setup Start



**Revision ID:** 

Item Name: 205 Skidtube bent detail

**Cust Item ID:** 

Stop

Stop

**Start Date:** 

9/01/09

OC:

Start Qty: 2.00 Req'd Qty: 2.00

**Customer:** 

Reference:

**Approvals:** 

**Process Plan:** 

Date:

Tooling:

Date:

Run Start

Required Date: 9/08/09

Date:

SPC (Y/N):

Date:

Sequence ID/ **Work Center ID** 

Packaging

Packaging

Operation **Description** 

Set Up/ **Run Hours**  Draw Number

Draw Rev.

Plan Accept Code Qty

Reject Qty

Reject Insp. Number Stamp

140

Memo

0.00

150

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

09/09/02 AJ MF 09-09-02

Dart Aerospace	Ltd
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W/O:			WORK ORDER CHANGES									
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
Part No	:	PAR #:	Fault Category:	NCR: Ye	s No <b>DQ</b>	A:	Date: _					
	Resolution	) <b>:</b>	Disposition:	QA: N/C	Closed:		Date: _					

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification	Approval	Annessal				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector			
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September 1, 2009 8:45:27 AM

Work Order ID: 51743

Parent Item:

D2580-1RevD

Parent Item Name: 205 Skidtube bent detail

Comments:



**Start Date: 9/01/09** 

Required Date: 9/08/09

Start Qty: 2.00

Required Qty: 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status	
D2500-1-190RevU/R		Manufactured	No			100	Each	0.0000	2.0000	/S ~ <	50166	-AWM 9-1-1	

Ext'n - I' Beam Tube 4'

Web, 205 Skidtube

D2596RevD

Manufactured

110

Each

2.0000

2.0000

B-50762 Awm9-9-1

Warehouse Location	Loc Oty	Loc Code
Main Warehouse		
LG	2	
50762	2	

Awm 9-9-1 (2)

W/O:			WC	ORK ORDER CHANG	iES							
DATE	STEP	PR	OCEDURE CHA	NGE	E	У	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	:	PAR #:	Fault Cate	gory:	_ NCR:	Yes N	No DQA:		Date:			
			Disposition: (									
NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
DATE	STEP	Description of NC Section A	Corrective Action S Initial Action Descriptio		ection B		Verification Section C			Approval QC Inspector		
		Section A	Chief Eng	Chief Eng		Date	Section	10	Chief Eng	QC Inspector		
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DESIG	H	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED.	APPROVED	DRAWING NO. REV. D
	W		D2580 SHEET 1 OF 3
DATE			TITLE SCALE
07.0	)2.27		205 SKIDTUBE ASSEMBLY NTS
Α		96.09.16	NEW ISSUE
В		96.12.02	AS MANUFACTURED
С		98.08.26	REDRAWN, INCLUDED DEO 9094/9097
D		07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183



QTY	QTY	Part Number	Description
-041	-045		
X	_	D2580-041	SKIDTUBE ASSEMBLY
	X	D2580-045	SKIDTUBE ASSEMBLY
1	1	D2500-1-190	EXTRUSION
1	1	D2576-3	STEP
20	24	D2579	CROSS BOLT SPACER
16	16	D2594-1	PLUG
16	16	D2594-3	O-RING
1	1	D2596	205 WEB
1	1	D2855	AFT CAP
1	1	D3564-5	WEARSHOE
1	1	D3564-9	WEARSHOE
1	1	D3564-11	WEARSHOE
1	1	D3564-13	WEARSHOE
2	2	D3566-1	GASKET
1	1	D3566-5	GASKET
1	1	D3566-13	GASKET
50	50	ALS7-1032-130	INSERT
		or AKS7-1032-130	
		or AKS4-1032-130	
		or AELS-1032-130	
50	50	AN3C4A	BOLT
2	2	AN3-5A	BOLT
50	50	AN960C10L	WASHER
2	2	AN960JD10L	WASHER

#### GENERAL NOTES:

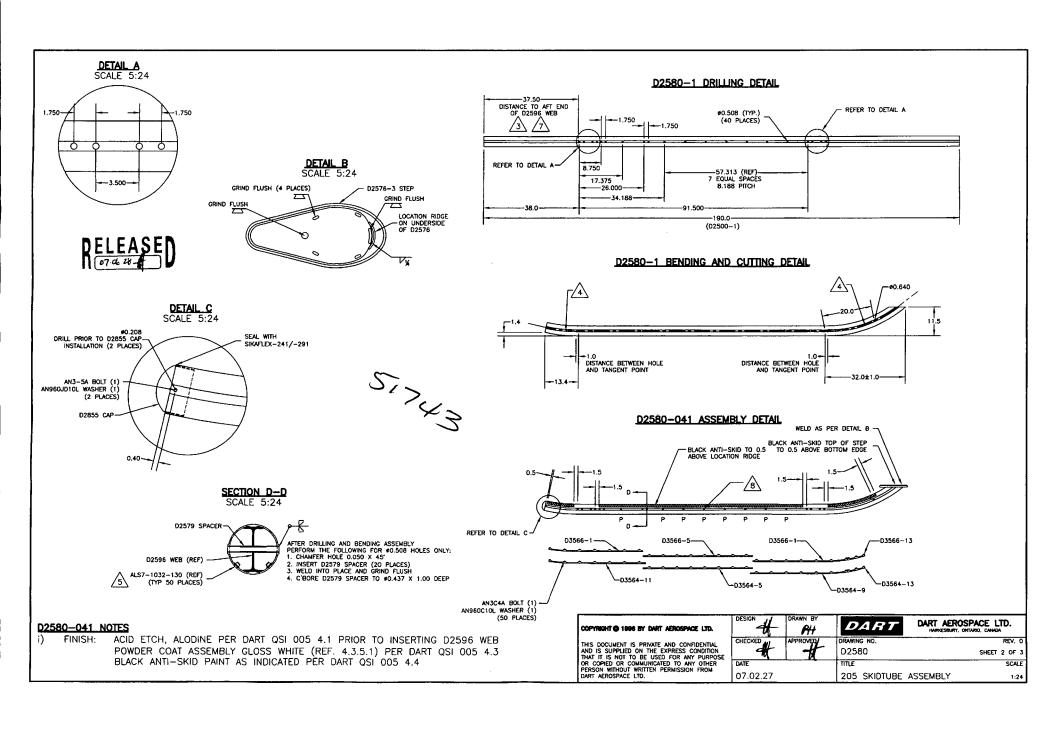
- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

SEE NOTES ON PAGE 2 FOR D2580-041 AND PAGE 3 FOR D2580-045

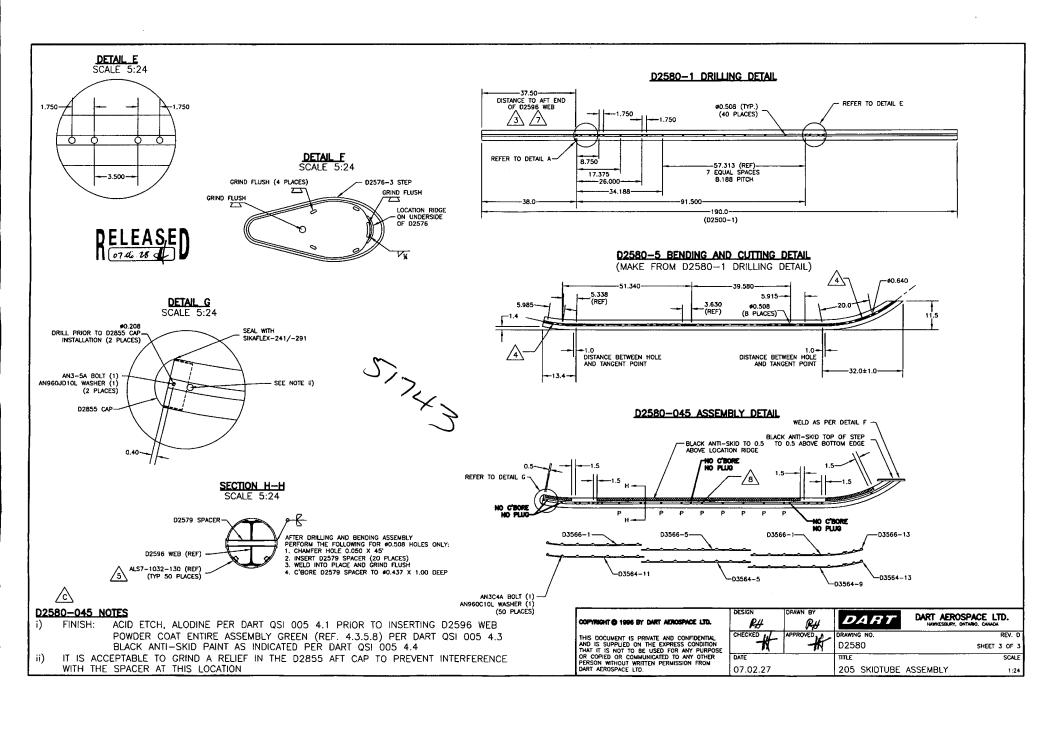
 INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

Copyright © 1996 by DART AEROSPACE LTD

W/O:		WORK ORDER CHANGES											
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Part No		PAR #:	Fault Cate	gory:	NCR: \	es N	o DQA	\:	Date:				
Resc		esolution:	Disposition	າ:	QA: N/	C Clos		Date:	747				
NCR:			WORK ORDI	ER NON-CONFORM	ANCE (N	ICR)							
DATE	STEP	Description of NC Section A	Initial	Corrective Action Sec Action Description	tion B	gn &	Verification Section C		Approval	Approval			
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W/O:			W	ORK ORDER CHANG	GES					
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Part No:		PAR #:	Fault Cate	NCR: Yes No DQA: Date:						
	R	esolution:	Dispositio	n:	QA:	N/C Clo	sed:	Date:		
NCR:			WORK ORD	ER NON-CONFORM	ANCE	(NCR)				
DATE	STEP	Description of NC	In this I	tion B	on B Sign &		cation	Approval	Approval	
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W/O:		WORK ORDER CHANGES										
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Part No		PAR #: esolution:										
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DATE	STEP	Description of NC Section A	Corrective Action Se		tion B	Sign &	Verification Section C		Approval Chief Eng	Approval QC Inspector		
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